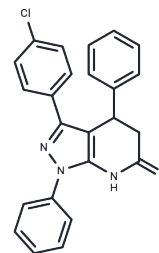


Antiviral agent 58

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 939655-35-3 |
| Formula: | C ₂₄ H ₁₈ ClN ₃ O |
| Molecular Weight: | 399.87 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|-------------|---|
| Description | Antiviral agent 58 (Compound J1) is an orally active antiviral agent that exhibits broad-spectrum activity against enveloped viruses. It effectively targets various pathogens, including Influenza A virus (IAV), Respiratory Syncytial Virus (RSV), Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2), Human Coronavirus OC43 (HCoV-OC43), and Herpes Simplex Virus types 1 and 2 (HSV-1 and HSV-2). |
| In vitro | Antiviral Agent 58 (Compound J1) (6.25-200 µM; 48 h) demonstrates low cytotoxicity in A549, MDCK, Vero-E6, and HRT18 cells at a concentration of 200µM. Furthermore, it effectively inhibits infection by various IAV strains such as H1N1, H7N9, H5N1, and H3N2, including oseltamivir-resistant strains, with IC50 values ranging between 7.81-15.65 µM. |
| In vivo | Antiviral agent 58 (Compound J1) (15-60 mg/kg; oral; once daily for 5 consecutive days) significantly mitigates influenza virus-induced pulmonary damage in BALB/c mice. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.5008 mL | 12.5041 mL | 25.0081 mL |
| 5 mM | 0.5002 mL | 2.5008 mL | 5.0016 mL |
| 10 mM | 0.2501 mL | 1.2504 mL | 2.5008 mL |
| 50 mM | 0.050 mL | 0.2501 mL | 0.5002 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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